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IMPACT OF A RESALE PRICE INCREASE ON JAPAN'S WHEAT IMPORTS

Bruce L. Greenshields

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ABSTRACT

An econometric model isolated the impact of a resale price increase on Japan's wheat imports. It predicts that with other factors held constant, the 16.4-percent increase in the Japanese Government's resale price of wheat as of July 1, 1976, would cost the United States \$30 million in lost sales of wheat to Japan during July 1976-June 1977.

KEYWORDS: Forecasting, Japan, short run, trade, wheat.

FOREWORD

This study describes an econometric model to estimate the effects of changes in quantifiable determinants on Japan's wheat imports—one part of the process of making short term forecasts of U.S. agricultural exports to Japan. The resulting information is being used along with analysis of other factors affecting Japan's wheat imports to arrive at the official U.S. Department of Agriculture forecast, which is published periodically in Foreign Agricultural Circular: Grains. The results of the present study are published to isolate only the effect on imports of the recent increase in the Japanese resale price of wheat.

Reed E. Friend, Program Leader Developed Countries Program Area Foreign Demand and Competition Division

Economic Research Service

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SUMMARY

The Japanese Government raised the resale price of imported wheat by 16.4 percent on July 1, 1976. This study estimates the parameters of a wheat consumption function using an econometric model. With other factors held constant, the model predicts the volume of Japan's wheat imports in the short term at the latest resale price. This volume is then compared with what the volume would have been if the resale price had remained at the previous level, set on January 20, 1976.

Results of the model are that the price increase of July 1, 1976, would lower wheat imports during July 1976-June 1977 by 300,000 metric tons. Assuming that the U.S. share of the loss in sales would be equal to the U.S. share of Japan's total wheat imports, the dollar loss to U.S. exporters would be about \$30 million (at U.S. average f.o.b.

prices for U.S. fiscal year 1975/76).

IMPACT OF

A RESALE PRICE INCREASE ON JAPAN'S WHEAT IMPORTS

By Bruce L. Greenshields 1

INTRODUCTION

Japan is an important market for U.S. wheat exports. In U.S. fiscal year 1975/76, U.S. sales of wheat to Japan amounted to 3.3 million metric tons and were valued at \$543 million, 11 percent of total U.S. wheat exports.

The Japanese Government directly controls wheat imports as part of its policy to provide staple foods to Japanese consumers at relatively low prices. The Government sets the prices at which imported and domestic wheat are resold to millers, as well as the price at which the domestic crop is purchased $(8)^2$. These prices determine the volume of imports, as can be seen in figure 1. Price P_2 is the support price for domestic wheat which generates the production volume of Q_2 . Price P_3 is the average Government resale price of domestic and imported wheat paid by millers who demand the total volume of Q_3 at that price. The amount imported is $Q_3 \cdot Q_2$.

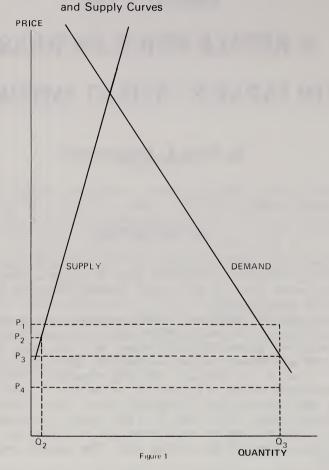
The wheat pricing decisions depend to a large extent on rice policies, because rice and wheat products are close substitutes in the Japanese diet. At present the rice policies are aimed at maintaining a total rice consumption which is constant (thus implicitly allowing for a 1.4-percent annual decline in per capita consumption because of population growth) and equal to domestic production. The desire of the Japanese Government is to maintain rice consumption in order to limit dependence on imported food (and feed).

²Italicized numbers in parentheses refer to references listed at the end of

this report.

¹Greenshields is an economist in the Foreign Demand and Competition Division of the Economic Research Service. Alan S. Brigida, a Federal junior fellow and student at the College of William and Mary in Williamsburg, Virginia, helped in the research for this report.

Japan: Hypothetical Wheat Demand



Rice prices are also administered by the Government, and because rice and wheat products are substitutes, the rice price is a wheat demand shifter. An increase in the rice price, ceteris paribus, will shift the wheat demand curve (fig. 1) to the right, thus increasing the volume of wheat imports. Likewise, a decrease in the rice price, ceteris paribus, will shift the wheat demand curve to the left, thus decreasing the volume of wheat imports. Therefore, the Government-administered wheat and rice prices jointly determine wheat imports, together with the other traditional determinants of wheat supply and demand.

The Government resale price of imported wheat until 1973 has been higher than the landed price in Japan—at times by as much as 50 percent. This tax, or "skimming," as it is often called, had been used to help finance the differences between the purchase and resale prices of domestic wheat and rice. It had also been used to defray the administrative costs of purchasing and handling the imported wheat. But during 1973-75, the landed price in Japan exceeded the resale price, at times by as much as a half, in effect constituting an import subsidy. This situation was allowed to prevail because of the Government's efforts to curb retail price increases at that time.

The effects of the subsidy or tax can be seen graphically in figure 1. If the world price is P_1 and the resale price is P_3 , the import subsidy is $P_1 - P_3$ per unit, or equal to the total value of $P_1(Q_3 - Q_2) - P_3(Q_3 - Q_2)$. Likewise, if the world price is P_4 and the resale price is P_3 , the import tax is $P_3 - P_4$ per unit, or equal to the total value of $P_3(Q_3 - Q_2) - P_4(Q_3 - Q_2)$.

The change in the wheat resale price which occurred on July 1, 1976, put the resale price about a fifth greater than the landed price. The average increase for all imported wheat was 16.4 percent over the resale price which has been in effect since January 20, 1976. For U.S. Western White No. 2, the increase was 14 percent (table 1).

The purpose of this study is to estimate how this latest price change will affect wheat imports in the short run.

Table 1—Japan: Government resale price of U.S. Western White #2

October		35,910	35,450	35,200	35,200	35,200	35,200	34,920	34,640	34,650	34,460	34,460	34,530	33,690	33,670	45,250	45,200	60,660
September		35,910	35,450	35,200	35,200	35,200	35,200	34,920	34,640	34,650	34,460	34,460	34,530	33,690	33,670	45,250	45,200	60,660
August	ic ton ¹	35,910	35,450	35,200	35,200	35,200	35,200	34,920	34,640	34,650	34,460	34,460	34,530	33,690	33,670	45,250	45,200	60,660
yluf	\overline{Y} en per metric t on I	35,910	35,450	35,200	35,200	35,200	35,200	34,920	34,640	34,650	34,460	34,460	34,530	33,690	33,690	45,760	45,250	099'09
June		35,910	35,910	35,450	35,200	35,200	35,200	35,200	34,920	34,640	34,650	34,460	34,460	34,530	33,690	45,760	45,250	53,220
May		35,910	35,910	35,450	35,200	35,200	35,200	35,200	34,920	34,640	34,650	34,460	34,460	34,530	33,690	45,760	45,250	53,220
April		35,910	35,910	35,450	35,200	35,200	35,200	35,200	34,920	34,640	34,650	34,460	34,460	34,530	33,690	45,760	45,250	53,220
Japanese	7 5 7	1960/61	1961/62	1962/63	1963/64	1964/65	1965/66	1966/67	1967/68	1968/69	1969/70	1970/71	1971/72	1972/73	1973/74	1974/75	1975/76	1976/77

Footnote at end of table.

Table 1-Japan: Government resale price of U.S. Western White #2-continued

Japanese fiscal year	November	December	January	February	March	Average
			$Yen\ per\ metric\ ton^I$	I_1		
1960/61	35,910	35,910	35,910	35,910	35,910	35,910
1961/62	35,450	35,450	35,450	35,450	35,450	35,565
1962/63	35,200	35,200	35,200	35,200	35,200	35,263
1963/64	35,200	35,200	35,200	35,200	35,200	35,200
1964/65	35,200	35,200	35,200	35,200	35,200	35,200
1965/66	35,200	35,200	35,200	35,200	35,200	35,200
1966/67	34,920	34,920	34,920	34,920	34,920	34,990
1967/68	34,640	34,640	34,640	34,640	34,640	34,710
1968/69	34,650	34,650	34,650	34,650	34,650	34,648
1969/70	34,460	34,460	34,460	34,460	34,460	34,508
1970/71	34,460	34,460	34,460	34,460	34,460	34,460
1971/72	34,530	34,530	34,530	34,530	34,530	34,513
1972/73	33,690	33,690	33,690	33,690	33,690	33,900
1973/74	33,670	45,760	45,760	45,760	45,760	37,707
1974/75	45,250	45,250	45,250	45,250	45,250	45,420
1975/76	45,200	45,200	45,200	53,220	53,220	46,553
1976/77	099'09	099'09	60,660	099'09	099'09	58,880
	The state of the s					

¹Excluding bagging cost (1,090 yen per metric ton in 1975/76) and contract production bounty (600 yen per metric ton in 1975/76).

Source: Government of Japan, Ministry of Agriculture and Forestry, Food Agency.

METHOD OF ANALYSIS

Wheat imports are determined by the demand for wheat and the domestic supply of wheat, as shown in figure 1. At any particular price, the total quantity supplied is equal to domestic production plus imports, and the total quantity demanded is equal to consumption plus exports plus the change in stocks, giving the following identities:

Equation 1 QS = Y + MEquation 2 $QD = C + X + \Delta S$ Equation 3 QS = QDEquation 4 $Y + M = C + X + \Delta S$ Equation 5 $M = C + X + \Delta S - Y$

Where:

QS = Quantity supplied

Y = Domestic production

M = Imports

QD = Quantity demanded

C = Consumption

X = Exports

 ΔS = Change in stocks

Observed values of these variables are given in table 2 for Japanese fiscal years (April-March) 1960/61-1975/76. The quantity supplied is predominantly imports in recent years. Exports are relatively insignificant, as are changes in stocks, relative to consumption.

A structural equation is used to describe and predict the demand for wheat for consumption, and the other variables on the right side of equation 5 are exogenous. Thus, the values for X, Δ S, and Y are predicted on the basis of any available information, such as planting intentions and stock policies.

Table 2-Japan: Wheat quantities supplied and demanded

Total	м _		4,191	4,441	4,121	4,128	4,715	4,819	5,127	5,235	5,008	5,295	5,095	5,166	5,601	5,571	5,717	i c
D)	Change in stocks (∆S)		179	180	-244	-235	142	100	65	42	-198	-31	-159	-95	173	35	174	000
Quantity demanded (QD)	Exports (X)	ric tons	47	7.1	93	73	89	88	42	87	114	81	47	55	26	38	26	o u
Quan	Consumption (C)	1,000 metric tons	3,965	4,190	4,272	4,290	4,505	4,631	4,983	5,106	5,092	5,245	5,207	5,206	5,372	5,498	5,517	1000
plied (QS)	Imports (M)		2,660	2,660	2,490	3,412	3,471	3,532	4,103	4,238	3,996	4,537	4,621	4,726	5,317	5,369	5,485	700
Quantity supplied (QS)	Production (Y)		1,531	1,781	1,631	716	1,244	1,287	1,024	266	1,012	758	474	440	284	202	232	941
Japanese	fiscal year		1960/61	1961/62	1962/63	1963/64	1964/65	1965/66	1966/67	1967/68	1968/69	1969/70	1970/71	1971/72	1972/73	1973/74	1974/75	1975/76

is estimated based on actual trade and production from: Ministry of Finance, Japan Exports and Imports, various monthly issues; and Source: Government of Japan, Ministry of Agriculture and Forestry, Food Balance Sheet, annual issues, except for 1975/76 which Ministry of Agriculture and Forestry, Monthly Statistics of Agriculture, Forestry, and Fisheries, June 1976. Wheat consumption is mainly a function of the wheat price, population, income, the price of close substitutes, and consumer preferences, such that:

Equation 6

C = f(P, POP, I, SUB, T)

Where:

P = Wheat price POP = Population

I = Income

SUB = Price of close substitutes
T = Consumer preferences

The approach is to estimate the parameters of the function (equation 6) and to predict the volume of imports in the short term at the latest resale price. This volume is then compared to what the volume would have been if the resale price had remained at the previous level, set on January 20, 1976.

RESULTS OF THE STATISTICAL ANALYSIS

The functional relationship (equation 6) is specified as linear in equation 7. The coefficients are estimated by ordinary least squares regression analysis. The sample period is Japanese fiscal years 1960/61-1975/76. Data used in the wheat consumption function are given in table 3. The equation and its estimated coefficients are as follows:

Equation 7

C/POP = 77.8008 - 0.6448(P/IPD) - 17.9667[(I/IPD)/POP](0.1454)(6.7900)(4.4334)(2.6460)(0.9992)(0.9787)+ 0.0579 (SUB/IPD) (0.0291)(1.9853)(0.9296)

Where:

C/POP = Wheat consumption per capita, kilograms per

person

= Real wheat price (resale price of U.S. Western P/IPD White No. 2/GNP implicit price deflator), yen

per kilogram

= Real GNP per capita, million ven per person (I/IPD)/POP

SUB/IPD = Real rice price (resale price of domestic rice/GNP implicit price deflator), ven per kilo-

gram, brown basis

The standard errors of the beta coefficients are in parentheses under the coefficients. The "t" statistics are in parentheses under the standard errors. The levels of significance of the beta coefficients are in parentheses under "t" statistics.

Other statistics of the equation are: Coefficient of determination $(R^2) = 0.91$

Standard error of the estimate = 0.9485

Mean of the dependent variable = 48.2991

Coefficient of variability (percent) = 1.96

Durbin-Watson (d) = 1.50

The derived demand elasticities, measured at the means of the variables, are:

Price (P/IPD) = -0.54Income [(I/IPD)/POP] = 0.21Cross price (SUB/IPD) = 0.14

Table 3-Japan: Variables in the wheat consumption function

Sources at end of table.

Table 3-Japan: Variables in the wheat consumption function-continued

Real rice resale price (SUB/IPD)	Yen per kilogram	117.157 107.934 104.964 111.707 105.725 117.651 122.486 116.205 127.754 131.250 122.435 116.648 113.325 101.800 99.481	118.528
Per capita real income [(I/IPD) POP]	Million yen per person	0.280270 0.315208 0.332214 0.370168 0.404803 0.406823 0.466823 0.521435 0.521435 0.531083 0.637817 0.688947 0.729525 0.729525 0.729525 0.729525 0.729525 0.729525 0.729525 0.729525 0.729525 0.729525 0.729525 0.729525	0.831438
Real wheat resale price (P/IPD)	Yen per kilogram	58.0129 53.2410 51.4788 48.9569 46.6844 44.6134 42.1059 40.0346 38.2851 36.2479 37.7448 30.4036 29.5047	29.0593
Per capita consumption (C/POP)	Kilograms per person	42.4432 44.8829 44.6150 46.3563 47.1233 50.3150 50.9601 50.2512 51.1528 49.0702 49.0702 49.9308 50.3932	51.2087
Implicit price deflator (IPD)	$Calendar\ year$ 1970=1,000	619 6688 6857 719 754 789 831 867 1,013 1,013 1,278 1,510	1,602
Japanese fiscal year		1960/61 1961/62 1962/63 1963/64 1964/65 1965/66 1966/67 1966/70 1977/71 1971/72 1972/73	1975/76

C - from table 2. Sources:

P—from table 1.

POP — Office of the Prime Minister of Japan, Monthly Statistics of Japan, Apr. 1976.

I and IPD — Economic Planning Agency, Annual Report on National Income Statistics, 1976, and Japanese Economic Indicators, June 1976.

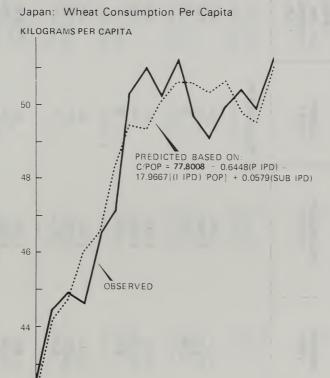
Wheat consumption and income are specified in per capita terms, implicitly assuming a population elasticity of 1. This specification is necessary because the simple intercorrelation between population and income is high (0.99), and their separate effects cannot be distinguished if both are included as separate explanatory variables, since they are virtually identical vectors.

The resale price of Western White No. 2 is used to indicate changes in the average resale price for all imported wheats. The Government resale price for the various wheats was based on fixed differentials so that the resale price variation of Western White No. 2 would indicate the average resale price variation of all wheats. The system of fixed differentials only recently has been dropped, but it does not affect the sample. The announced average increase of 16.4 percent is simply an average of the resale prices for all imported wheats—not weighted as to the relative volumes of each type of wheat.

The average resale price of rice is specified as the main substitute price. Consumer preferences are not included as a quantified variable. Gradual shifts in consumer preferences could be handled by including a linear trend variable. But the simple intercorrelation between a linear trend and P/IPD is high (0.99), thus precluding the possibility of isolating the effects of shifts in consumer preferences if there were any in the sample period. In any case, interpreting the trend coefficient would be difficult, because it absorbs most of the unexplained variation of the dependent variable (3).

The tracking ability of the model is depicted in figure 2. The predictions made from the equation are given in table 4 for Japanese fiscal year 1976/77 (April-March), U.S. wheat marketing year 1976/77 (June-May), Japanese wheat marketing year 1976/77 (July-June), and U.S. fiscal year 1976/77 (October-September). Predictions are based on the resale price that became effective on January 20, 1976 (I), and on the resale price that became effective on July 1, 1976 (II), which is assumed unchanged throughout the forecast period. Only P is allowed to vary, and thus the difference between imports under I and II is attributable to the price increase.

Whatever values are estimated for X, Δ S, and Y are immaterial to the purpose of this paper as they do not affect the difference between I and II. POP is estimated based on an annual growth rate of 1.4 percent. I and IPD are based on projections by the Japan Economic Research Center (5). SUB is based on the actual resale price which was raised by 10.2 percent on September 1, 1976 (the previous price had been in effect since September 1, 1975), and SUB assumes no change throughout the forecast period.



JAPANESE FISCAL YEARS
Figure 2

1970/71

1965/66

1975 76

42

0 1960/61

Continued—

Table 4-Japan: Wheat import predictions

Production (Y)		241 241 0	241 241 0	241 241 0	241 241 0
Change in stocks (\(\Delta S\))		100 100 0	100 100 0	100 100 0	100 100 0
Exports (X)	1,000 metric tons	0 e e	25 25 0	25 5 0	22 25 0 0
Consumption (C)	I	5,59 5,352 242 242	5,616 5,329 287	5,631 5,317 314	5,658 5,349 309
Imports (M)		5,478 5,236 242	5,500 5,213 287	5,515 5,201 314	5,542 5,233 309
Year ¹		Apr. 1976/Mar. 1977: I II I – II	June 1976/May 1977: I I I I I I I	July 1976/June 1977: I I – II	Oct. 1976/Sept. 1977: I II I - II

Table 4-Japan: Wheat import predictions-continued

Year ¹	Wheat resale price (P)	Population (POP)	Income (I)	Rice resale price (SUB)	Implicit price deflator (IPD)
	Yen per metric ton	Million persons	Billion yen	Yen per metric ton	Calendar year $1970 = 1,000$
Apr. 1976/Mar. 1977: I II I – II	53,220 58,880 -5,660	113.501 113.501 0	170,185 170,185 0	215,531 215,531 0	1,711 1,711 0
June 1976/May 1977: I II I - II	53,220 60,040 -6,820	113.766 113.766 0	176,432 176,432 0	218,992 218,992 0	1,741 1,741 0
July 1976/June 1977: I I I I - II	53,220 60,660 -7,440	113.898 113.898 0	176,432 176,432 0	220,722 220,722 0	1,741 1,741 0
Oct. 1976/Sept. 1977: I II I	53,220 60,660 -7,440	$114.296\\114.296\\0$	182,961 182,961 0	224,183 224,183 0	1,771 1,771 0

1See text for explanations of I and II.

RELATED RESEARCH IN ERS

A wheat demand equation was estimated by Rojko (6) on a relatively short time series sample of 11 annual observations (1957-67). As in the present study, the rice price was significant. The beta coefficient on income was positive in Rojko's equation and consistent with his expectations at that time. But Hashimoto (7), whose study³ was partly financed by the Economic Research Service (ERS), estimated Rojko's equation (same variables and functional forms) with a time series sample of 19 observations (1955-73). He found the beta coefficient on income to be insignificant. Hashimoto also estimated a demand function with the same variables and functional form as in the present study, but then he proceeded to drop income from the specification because of an insignificant beta coefficient. One possible explanation for Hashimoto's difficulty with the income variable is his treatment of the data. He has some unintended partial lags in his equation because he deflated prices, which were averaged over April-March years (Japanese fiscal years), by the calendar year consumer price index; his real income variable was on a calendar year basis; his population variable was midyear of the Japanese fiscal year; and his consumption variable was on a Japanese fiscal year basis. In the present study, all variables are Japanese fiscal year averages, including the price deflator.

Another earlier ERS study (4) contains an equation to estimate Japan's wheat import demand, and the specification in the present study represents a refinement in that the explanatory variables are separated into those that are predicted stochastically and those that are predicted from a deterministic model. The earlier model (4) was a nonlinear equation, and that specification was tested on the sample used in the present study. It was concluded that the improvement in the fit was not enough to merit using the complication of logarithmically transforming the data.

An ERS model of the U.S. wheat sector is being developed that includes an endogenous treatment of the export sector (2). This model contains a demand equation with Japan's per capita imports of U.S. wheat specified as the dependent variable. The explanatory variables are Japanese wheat production plus beginning stocks, real per capita income, real resale price of Western White No. 2, and a dummy variable for U.S. dock strikes—a major determinant in the historical variation in the U.S. share of the Japanese market.

Finally, ERS is having a study prepared in cooperation with Wheat Associates, U.S.A. (1), which will fully detail how the resale price of wheat is determined, including such factors as the relative importance of the rice price, the international wheat price, and Japanese economic objectives. This study should be completed and published by ERS in 1977.

³Takayama is the principal author, but the chapter on Japan was written by Hashimoto.

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Appendix table 1-Japan: Exchange rates

Year	Rate
	Yen per U.S. dollar
Calendar years:	
1960-70	360.00
1971	350.74
1972	308.00
1973	292.19
1974	291.51
1975	296.80
Japanese fiscal years:	
1960-70	360.00
1971	337.80
1972	302.03
1973	274.24
1974	291.77
1975	299.07

Source: International Monetary Fund, International Financial Statistics, various monthly issues.

Appendix table 2-Japan: Wheat imports by country of origin

	Other		27 -			П	0	0	0	0	2	0	0	0	က	-	0
Share of wheat imports	Australia	ent	11	13	12	13	12	6	12	18	29	19	22	27	က	15	21
Share of wh	Canada	Percent	50	55 47	41	39	34	35	35	30	23	26	26	24	27	28	26
	United States		37	30 34	46	47	54	55	53	51	46	55	53	49	29	56	53
	Other		64	19 30	41	27	က	0	1	12	82	1	0	0	137	34	0
ts	Australia	suc	307	355 446	382	484	422	372	507	748	1,245	903	1,063	1,367	183	830	1,174
Wheat imports	Canada	1,000 metric tons	1,326	1,459 1 207	1,303	1,400	1,249	1,387	1,436	1,241	1,015	1,195	1,246	1,236	1,450	1,488	1,476
	United States		981	798 880	1,452	1,681	1,971	2,158	2,186	2,072	1,986	2,586	2,563	2,545	3,616	3,025	3,004
	Total		2,678	2,631	3,178	3,592	3,645	3,917	4,130	4,073	4,328	4,685	4,872	5,148	5,386	5,377	5,654
	Year		1960	1961	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975

Source: Japan Customs Bureau, Ministry of Finance.

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